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1 [Data transmission over FDM/FM troposcatter systems](#)



Leang P. Yeh

October 1969

Proceedings of the first ACM symposium on Problems in the optimization of data communications systems
Publisher: ACM Press

Full text available: pdf(1.60 MB)

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There are more than one hundred troposcatter systems of various sizes in existence all over the world.¹ As the transmission of computer data becomes more and more in common and popular demand, such systems are certain to be involved in these services. Two methods are generally used for transmitting data over troposcatter channels: direct transmission and FDM/FM technique. In the latter, the individual data channels are combined into an FDM baseband to frequen ...

2 [A simplified EM algorithm for detection of CPM signals in a fading multipath channel](#)

Linda M. Zeger, Hisashi Kobayashi

 November 2002 **Wireless Networks**, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(181.83 KB)

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Application of the EM (Expectation-Maximization) algorithm to sequence estimation in an unknown channel can in principle produce MLSE (maximum likelihood sequence estimates) that are not dependent on a particular channel estimate. The Expectation step of this algorithm cannot be directly performed for continuous phase modulated (CPM) signals transmitted in a time varying multipath channel. We therefore derive a simplification of the EM algorithm for CPM signals in this channel. Simulations appli ...

Keywords: EM algorithm, mobile communication, multipath channels, sequence estimation

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» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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 Volume 46, Issue 6, June 1998 Page(s):891 - 901
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S28	675	((propagation propagation) same random) and (shadow block\$3) and ((multi adj path) multipath (multiple adj path))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/06 18:51

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S33	60	((multiple adj path) multipath (multi adj path)) with (propagation propagation)) and random and serial and phase and amplitude and (shadow\$3 blocking) and (align\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/08 15:41

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